

NCCoE Wrap Up

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Medical and IT Communications

- You see common terms with different meanings
 - Viruses / neural networks / cell processes / memory / disks
- Common acronyms as well ~
 - GP General Practice or General Purpose
 - MOM Mother or Message Oriented Middleware
 - HITECH Health Information Technology for Economic and Clinical Health or high technology
 - PAP Password Authentication Protocol

What Did We Hear

- Drivers
 - Improved services and results
 - Public expectations
 - Efficiencies and Economics
 - Laws and Regulations
- Users
 - General public
 - Medical professionals and staff
 - Medical business associates

What Did We Hear

- Issues
 - 230M electronic breaches ~ one / US adult
 - 40M of the 230M were medical records ~ $> 1/6$
so NCCoE chose the right use case
 - 60% of the breaches from physical theft / loss of mobile unencrypted devices
 - Financial breach ~> replace the dollars BUT
Medical breach ~> how do you give privacy back
 - Verification and validation of who is connected

What Did We Hear

- Issues
 - Malware attacks 2011 > prior 10 years
 - Technology is outpacing policy and regulation
 - Lack of IT staff and IT expertise
 - Medical info on mobile devices with LOL messages
 - And the list goes on
- So something needs to be done
 - NCCoE and your involvement today

What Did We Hear

- Needs
 - Define the problems
 - Identify existing solutions
 - Identify gaps
 - Understand the users
 - Understand the medical culture
 - Set standards
 - Industry provided solutions

What Did We Hear

- NCCoE approach
 - Define the problems
 - Identify existing solutions
 - Identify gaps
 - Understand the users
 - Understand the medical culture
 - **Collaborate**
 - Set standards **and provide a way to meet the need**
 - **Let** Industry provide solutions
 - **Let Industry self certify**

What Did We Hear

- It must fit the Operational eEnvironment
 - Laws / Regulations / Guidelines / Policies
 - ~~Best~~ **Common** Practices / Culture / Existing Skill sets
 - Imagine a public free clinic
 - Imagine a small medical practice of a Doctor, Nurse, and Medical Receptionist
 - Imagine a major hospital
 - Imagine Medical business associates that do not know they are one
 - Pervasive sense of urgency
 - So who is going to turn it on and live with it?

Patients want electronic access
Everything needs to be secure and compliant
There are viruses the Doctor cannot cure
Medical practices are businesses
It needs to be affordable, effective and efficient



The doctor is
not feeling well



What is needed is an out of the box
Medical Cyber Security solution



Why would (small) business participate?

- Perspective included in “standard” solution
- Networking and visibility within community
- Relationships with the user community, large integrators, and others to partner with
- Chance to collaborate with NIST and others
- Standards map into regulations
- Creativity, Innovation and SME is needed